

Appl. No. 10/733,706  
Amdt. dated 12/29/2005  
Reply to Office Action of September 13, 2005

AMENDMENTS TO THE CLAIMS

In the claims, please cancel claim 11 and amend claims 1, 7 and 15 as follows:

1. (previously presented) A process for delivering a polynucleotide to an extravascular parenchymal cell in a limb of a mammal *in vivo*, comprising:
  - a) inserting a single injector into the lumen of a single vessel in said limb;
  - b) forming an occlusion such that fluid flow out of said limb is impeded;
  - c) rapidly injecting a viral vector in a large volume into said vessel distal to the occlusion thereby forcing fluid out of the limb vasculature and into the extravascular space and delivering said viral vector to said extravascular parenchymal cell; and,
  - d) releasing said occlusion within about two minutes after injection of said viral vector.
2. (original) The process of claim 1 wherein the viral vector is selected from the group consisting of: virus, virally encapsulated polynucleotide, and virally associated polynucleotide.
3. (original) The process of claim 1 wherein the polynucleotide is selected from the group consisting of RNA and DNA.
4. (previously presented) The process of claim 2 wherein the viral vector is selected from the group consisting of: adenovirus, adeno-associated virus, retrovirus, herpes simplex virus (HSV), vaccinia virus, vesicular stomatitis virus, retrovirus, lentivirus, human immunodeficiency virus, murine leukaemia virus, and syndbis virus.
5. (original) The process of claim 1 wherein the vessel consists of a blood vessel.
6. (original) The process of claim 5 wherein the blood vessel consists of an artery.
7. (previously presented) The process of claim 6 wherein the artery is selected from the list consisting of: hepatic artery, femoral artery, iliac artery, and coronary artery.
8. (original) The process of claim 5 wherein the blood vessel consists of a vein.
9. (original) The process of claim 8 wherein the vein is selected from the list consisting of: portal vein, hepatic vein, tail vein, coronary vein, inferior phrenic vein and saphenous vein.
10. (canceled)
11. (canceled)
12. (previously presented) The process of claim 1 further comprising injecting a vasodilator into said limb.

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13. (previously presented) The process of claim 1 where the parenchymal cell consists of a skeletal muscle cell.
14. (canceled)
15. (previously presented) A process for extravasation of a viral vector in a limb of a mammal *in vivo*, comprising:
- a) inserting a single injector into the lumen of a single vessel in said limb;
  - b) forming an occlusion such that fluid flow ~~from~~ out of said limb is impeded;
  - c) rapidly injecting the viral vector in a large volume into said vessel distal to the occlusion wherein the volume of the solution and the rate of solution injection result in increased extravascular fluid volume; and,
  - d) removing said occlusion within two minutes of said injecting.
16. (previously presented) The process of claim 15 further comprising injecting a vasodilator into the lumen of said vessel.
17. (canceled)